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Activity 2 - Table Structure and Validation Practice Questions

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The Publishing Company

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Task Scenario

- You have been asked to create a database for the East Berkshire Publishing Company
- Currently all records are stored on a spreadsheet
- The Company would like to be able to store information about their books
- The Company would like to be able to report on how their books are published

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Task Scenario

The database will record information about:

Authors

Titles

Editions

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Task Scenario

- An edition is the actual printed copy of a book, for which they need to record:
- type of book
- publication date
- edition number
- number of copies sold and price.
- The book type can be hardback, paperback or audio
- The company wants the flexibility to add new book types
- There must always be at least one edition of a book sold

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Task Scenario

When an edition sells between:

2000 – 4999 copies it is bronze edition

5000 – 10,000 copies it is silver edition

Over 10,000 copies it is a gold edition

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Task Scenario

When a first print run is sold out (EditionNumber = 1), a second print run is done and these books are EditionNumber = 2

Books cannot be published before 01/07/2020

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The Data

EditionID	AuthorID	BookID	Publication Date	Book Title	Book Type ID	Book Genre	Author Name	Edition Number	Number of Copies	Book Type	Price
200	11	71	01/07/2020	Flowers	1	Thriller	Smith	1	1000	Hardback	£10

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Table Structure - tblAuthor

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Table Structure - tblAuthor

You will also need information specific to each Author:

AuthorID as Primary Key

AuthorName as short text

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Table Structure - tblAuthor

Field names and datatypes are given on the next slide

Do not create an AutoNumbered Primary Key at this stage as you are given Primary Key values

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Table Structure - tblAuthor

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tblAuthor

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An author record will not save if the name is missing – presence check

- Use an ‘Is Not Null’ validation check
- Put it on the AuthorName column
- In the Validation Rule property field
- You can then add a suitable error message in the Validation text property field

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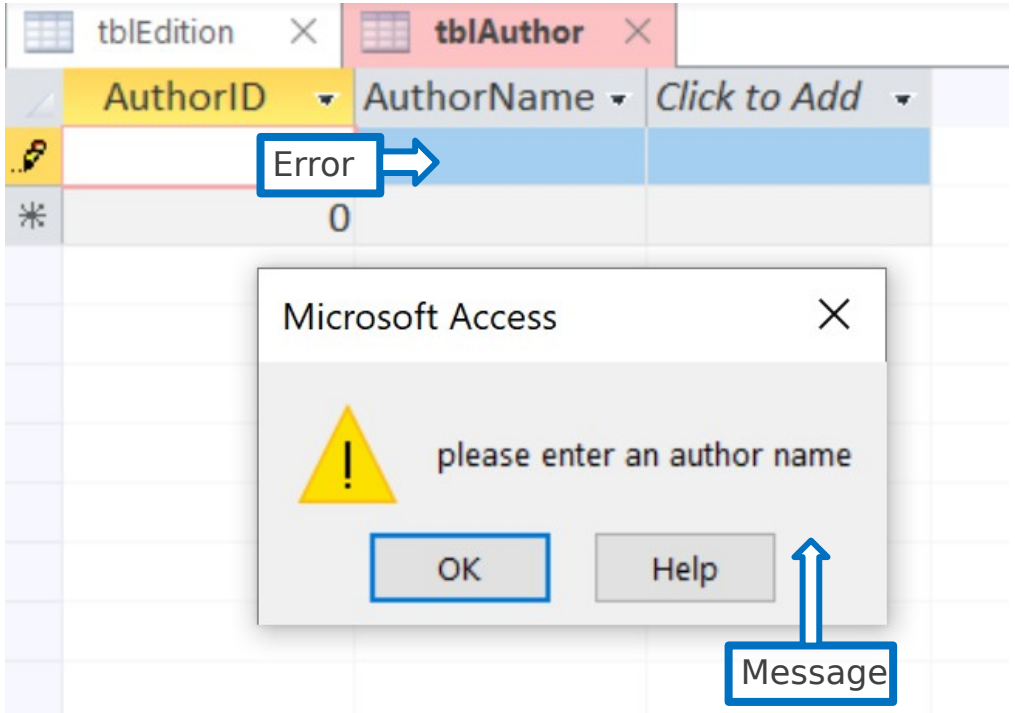
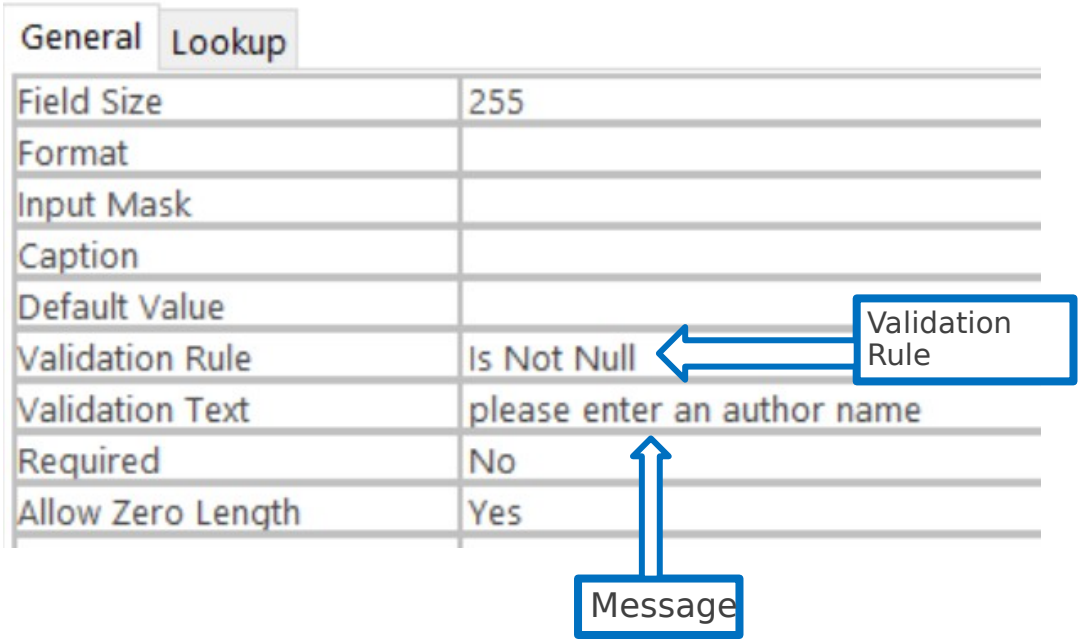
An author record will not save if the name is missing – presence check

ACCESS SCREENSHOT



VALIDATION CODE



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Glossary of Terms

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Glossary – Relational Database 1

Key Term	Definition
Attribute	Another name for a Column (or Field) in a Table in a Database.

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Glossary – Relational Database 2

Key Term	Definition
Entity Relationship	How data inside one Table is linked to data inside another Table in the same database. Relationships can be one:one, one:many and many:many.

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Glossary – Relational Database 3

Key Term	Definition
Candidate Key	When you have identified some columns that MIGHT be a good Primary Key.

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Glossary – Relational Database 4

Key Term	Definition
One to One relationship	When a Record in one table has a match with one **AND ONLY ONE** Record in another table. The Record in the second table matches one **AND ONLY ONE** Record in the first Table.

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Glossary - Normalisation

Key Term	Definition
Cascading Update	When any Updates made in one Table are reflected in other Tables that are Joined by a Foreign Key.

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Glossary – SQL

Key Term	Definition
Query	The process of asking a Database a question to get a specific answer.

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